

FILE NOTATIONS

Entered in NID File ☒
 Entered On S R Sheet _____
 Location Map Placed _____
 Card Indexed ☒
 IWR for State or Fee Land _____

Checked by Chief _____
 Copy NID to Field Office _____
 Approval Letter _____
 Disapproval Letter _____

COMPLETION DATA:

Date Well Completed _____
 OW _____ WW _____ TA _____
 GW _____ OS _____ PA _____

Location Inspected _____
 Land released _____
 State of Fee Land _____

LOGS FILED

Driller's Log _____

Electric Logs (No.) _____

E _____ L _____ S-I _____ GR _____ GR-N _____ Micro _____
 Lat _____ M-L _____ Sonic _____ Others _____



POWERS ELEVATION

OIL WELL ELEVATIONS AND LOCATIONS
CHERRY CREEK PLAZA, SUITE 1201
800 SOUTH CHERRY STREET
DENVER, COLORADO 80222
PHONE NO. 303/321-2217

August 13, 1980

State of Utah
Division of Oil, Gas and Mining
1588 West, North Temple
Salt Lake City, Utah 84116

RE: Filing Application for Permit to Drill
William C. Kirkwood
#31-16 State
Sec. 16 T32S R15E
363' FNL & 1942' FEL
Garfield County, Utah

Gentlemen:

Enclosed are three copies of the A.P.D. Form OGC-1a, the location and elevation plat and the Engineering Program for the above-captioned well location.

Very truly yours,

POWERS ELEVATION

Connie L. Frailey

Connie L. Frailey
Manager, Environmental Services

CLF:cd
Enclosures

cc: Wallace Averett

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN PLICATE*
 (Other instructions on
 reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. Lease Designation and Serial No. ML-27138
b. Type of Well Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator William C. Kirkwood		7. Unit Agreement Name N/A
3. Address of Operator P. O. Drawer 3439, Casper, Wyoming 82602		8. Farm or Lease Name State
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 363' FNL & 1942' FEL (NW NE)		9. Well No. 31-16
At proposed prod. zone same		10. Field and Pool, or Wildcat Wildcat
14. Distance in miles and direction from nearest town or post office* Approximately 50 miles east of Hanksville, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 16 T32S R15E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any) 363'	16. No. of acres in lease 640	12. County or Parrish 13. State Garfield, Utah
18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.	19. Proposed depth 800'	17. No. of acres assigned to this well 40
21. Elevations (Show whether DF, RT, GR, etc.) 5535' GR	20. Rotary or cable tools Rotary	22. Approx. date work will start* August 25, 1980

PROPOSED CASING AND CEMENTING PROGRAM

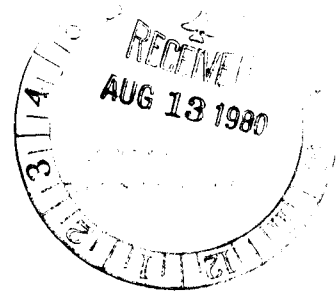
Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
8-1/2"	6-5/8" new	24# K-55 8 Rd.	20'	10 sacks cement Class "G"
5-5/8"	4-1/2" new	9.5# K-55 8 Rd.	800'	50 sacks cement Class "G"

1. Drill 8-1/2" hole and set 6-5/8" surface casing to 20' with good returns.
2. Log B.O.P. checks in daily drill reports and drill 5-5/8" hole to 800'.
3. Run tests if warranted and run 4-1/2" casing if productive.
4. Run logs, as needed, and perforate and stimulate as needed.

EXHIBITS ATTACHED:

"A" Location & Elevation Plat
 "B" Engineering Program

**APPROVED BY THE DIVISION
 OF OIL, GAS, AND MINING**
 DATE: 8/15/80
 BY: *Allen B. Fugate*

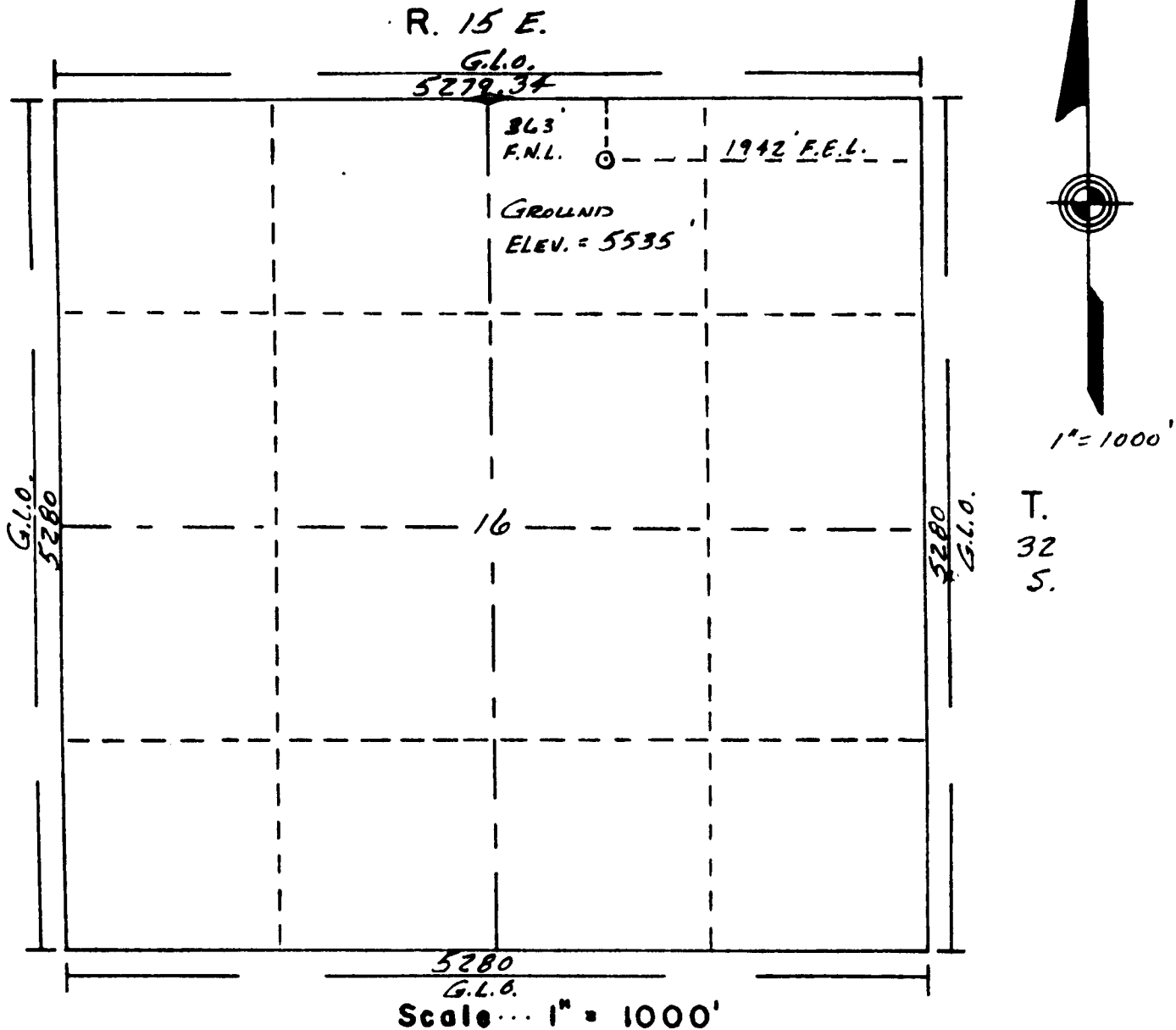


IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Signed *Wallace Everett* Title **Engineer** Date **August 13, 1980**
 (This space for Federal or State office use)

Permit No. _____ Approval Date _____

Approved by _____ Title _____ Date _____
 Conditions of approval, if any:



Powers Elevation of Denver, Colorado
has in accordance with a request from WALLACE AVERETT
for KIRKWOOD OIL & GAS CO.
determined the location of WILLIAM C. KIRKWOOD #31-16 STATE
to be 363' F.N.L. & 1942' F.E.L. OF Section 16 Township 32 S.
Range 15 E. OF THE SALT LAKE Meridian
GARFIELD County, UTAH

LEGEND

- ◇ FOUND CORNER
⊙ WELL LOCATION

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of
WILLIAM C. KIRKWOOD #31-16 STATE

Date: 8-11-80

Harry D. Becker
Licensed Land Surveyor No. 4189
State of UTAH

EXHIBIT "B"
ENGINEERING PROGRAM

William C. Kirkwood
#31-16 State
Sec. 16 T32S R15E
363' FNL & 1942' FEL
Garfield County, Utah

1. The Geologic Surface Formation

The surface formation is the Moenkopi (Triassic).

2. Estimated Tops of Important Geologic Markers

White Rim	420'
Organ Rock	760'
Total Depth	800'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

No water zones are anticipated

White Rim	420'	Oil
-----------	------	-----

4. The Proposed Casing Program

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE & JOINT</u>	<u>NEW OR USED</u>
8 1/2"	0-20'	20'	6 5/8"	24#, K-55, 8 Rd.	New
5 5/8"	0-800'	800'	4 1/2"	9.5#, K-55, 8 Rd.	New

Cement Program

A. Surface casing: 10 sacks cement, Class "G", 2% CaCl.

B. Production casing: 50 sacks cement, Class "G", 2% CaCl.

5. The Operator's Minimum Specifications for Pressure Control

Not Applicable

6. The Type and Characteristics of the Proposed Circulating Muds

Not Applicable - Air Drilled.

7. The Auxiliary Equipment to be Used

Not Applicable

8. The Testing, Logging and Coring Programs to be Followed

- (a) No DST's are anticipated.
- (b) An IES log & a Density log will be run from surface to total depth.
- (c) Coring is anticipated from the top of the White Rim to top of the Organ Rock.
- (d) Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate notice will be submitted.

9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for August 25, 1980, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 4 days after spudding the well and drilling to casing point.

**** FILE NOTATIONS ****

DATE: Aug. 14, 1980
OPERATOR: William C. Kirkwood
WELL NO: State # 31-16

Location: Sec. 16 T. 32S R. 15E County: Mayfield

File Prepared: ☒

Entered on N.I.D.: ☒

Card Indexed: ☒

Completion Sheet: ☒

API Number 43-017-30095

CHECKED BY:

Petroleum Engineer: _____

Director: OK in Hatch Camp Unit agreement
approved May 1, 1980. Sent approved copy of
application to Drill W.J. ALVAREZ

Administrative Aide: 1682 Woodland Dr
Provo, Utah 84601

APPROVAL LETTER:

Bond Required: ☒

Survey Plat Required: ☐

Order No. _____

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage
within a 660' radius of proposed site

Lease Designation State

Plotted on Map ☐

Hot Line ☒

Approval Letter Written ☐

P.I. ☒



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
MAXILIAN A. FARBMAN
EDWARD T. BECK
E. STEELE McINTYRE

May 21, 1981

William C. Kirkwood
P.O. Box Drawer 3439
Casper, Wyoming 82601

Re: SEE ATTACHED SHEET ON WELL DUE

Gentlemen:

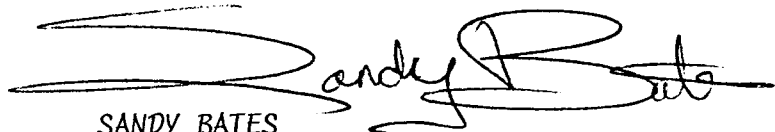
In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not recieved any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. (If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill these wells and action will be taken to terminate the application.) If you plan on drilling these location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING


SANDY BATES
CLERK-TYPIST

William C. Kirkwood
31-16 State
363' FNL 1942' FEL
Sec 16, T32S, R15E
Garfield Co. Utah
GL 5535'

Spudded 9/5/80
Set 20' 7" 23# K-55 surface pipe
cemented with 10 sacks

the following Formation tops were observed:

0- 120'	Chinle	
120- 380'	Moenkopi	
380- 458'	Upper White Rim	
458- 615'	White Rim	
615- 798'	Organ Rock	
798-1732'	Cedar Mesa	
1732-1770'	Elephant Canyon	T.D.

2' total saturation

ATTACHED SHEET ON WELLS DUE

1. Well No. White Rim #44-4
Sec. 4, T. 31S. R. 15E.
Garfield County, Utah
2. Well No. Magnum #23-8
Sec. 8, T. 31S. R. 15E.
Garfield County, Utah
3. Well No. Remington #14-15
Sec. 15, T. 31S. R. 15E.
Garfield County, Utah
4. Well No. Winfield #21-15
Sec. 15, T. 31S. R. 15E.
Garfield County, Utah
5. Well No. Garfield #44-15
Sec. 15, T. 31S. R. 15E.
Garfield County, Utah
6. Well No. Hatch Canyon Unit #34-16A
Sec. 16, T. 31S. R. 15E.
Garfield County, Utah
7. Well No. Monroe #22-20
Sec. 20, T. 31S. R. 15E.
Garfield County, Utah
8. Well No. Eastex #41-20
Sec. 20, T. 31S. R. 15E.
Garfield County, Utah
9. Well No. State #11-2
Sec. 2, T. 32S. R. 15E.
Garfield County, Utah
10. Well No. State #31-16
Sec. 16, T. 32S. R. 15E.
Garfield County, Utah
11. Well No. State #34-16
Sec. 16, T. 31S. R. 15E.
Garfield County, Utah

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. ML-27138
2. NAME OF OPERATOR William C. Kirkwood		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P.O. Box 3439, Casper, WY 82602		7. UNIT AGREEMENT NAME Hatch Canyon
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 363' FNL & 1942' FEL (NWNE)		8. FARM OR LEASE NAME State
14. PERMIT NO.	15. ELEVATIONS (Show whether OF, RT, GR, etc.) 5535' GR	9. WELL NO. 31-16
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 16, T32S, R15E
		12. COUNTY OR PARISH Garfield
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This Hole was plugged and abandoned. The hole was filled with abandonment fluid and a ten sack cement plug was set at the top of the White Rim Formation (400') and another ten sack cement plug was set from the surface to below the surface casing (20')

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**

DATE: 7/21/81BY: CB Hughes

18. I hereby certify that the foregoing is true and correct

SIGNED Ronald E. SchuylerTITLE EngineerDATE July 1, 1981

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771
January 29, 1982

William C. Kirkwood
P. O. Box 3439
Casper, Wyoming 82602

Re: Well no. State 44-32
T. 31S, R. 15E, Sec. 32
Garfield County, Utah

Well No. State #11-2
T. 32S, R. 15E, Sec. 2
Garfield County, Utah

Well No. State #31-6
T. 32S, R. 15E, Sec. 16
Garfield County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned wells is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

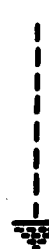
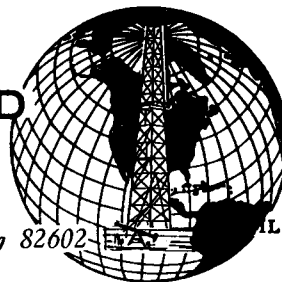
Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Clerk Typist

WILLIAM C. KIRKWOOD



Suite 300 Market Square Building — 307/265-5178

P. O. Drawer 3439 — Casper, Wyoming 82602

OIL & GAS EXPLORATION & PRODUCTION

January 29, 1982

State of Utah
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, UT 84116

RE: Filing Additions to USGS Form
9-330 or OGCC-3

William C. Kirkwood
#31-16 State
363' FNL 1942' FEL
Sec. 16, T32S, R15E
Garfield County, Utah

Gentlemen:

Enclosed is a copy of the logs (where run), sample and core descriptions, geologic summaries and other data obtained during drilling and completion operations to date.

Our delay in the further completion of this well, is due to testing presently being done to determine the best method of completion to be used to produce oil from this reservoir. Testing is being done by the University of Utah Fuels Engineering Department on core samples and oil from this reservoir. Additional wells have been cored to obtain samples for analysis of reservoir characteristics and to further delineate oil reserves in the Hatch Canyon Unit. In addition several wells of a pilot test pattern have been drilled.

If you require further information or have any questions please contact me.

Sincerely,

Robert Montgomery

RM:bal

Enclosures

William C. Kirkwood
#31-16 State
363' FNL 1942' FEL
Sec 16 Twp 32S R 15E
Garfield Co., Utah
G.L. 5535'

Spudded
T.D.

RCM'79

FM TOPS		POROSITY	GRADES	ROUNDING	SORTING	% OF FMWRK	GRAIN SIZE	HOLE # 31.16 SLT 72				SATURATION- OIL
NOTES	DEPTHS							SPOT	SEC	T	R	
								LITHOLOGY	DISCRIPTION	DIAGENESIS		

WILLIAM C. KIRKWOOD

Suite 300 Market Square Building — 307/265-5178

P. O. Drawer 3439 — Casper, Wyoming 82602



OIL & GAS EXPLORATION & PRODUCTION

February 9, 1982

State of Utah
Natural Resources & Energy
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

RECEIVED
FEB 11 1982

**DIVISION OF
OIL, GAS & MINING**

Re: Well No. State 44-32
T31S, R15E, Sec. 32
Garfield County, Utah

Well No. State 11-2
T32S, R15E, Sec. 2
Garfield County, Utah

Well No. State 31-16
T32S, R15E, Sec. 16
Garfield County, Utah

Gentlemen:

Enclosed please find the completed well completion forms OGC-3, for the above mentioned wells. These wells have been plugged and abandoned and the notices of abandonment have been approved by your office.

If you have any questions or require further information please contact us.

Sincerely,

Robert Montgomery

Robert Montgomery
Enc

RM/lkb

SUBMIT IN DUPLICATE*

STATE OF UTAH

(See other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____										5. LEASE DESIGNATION AND SERIAL NO. ML-27138	
b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <u>Plugged & Abandoned</u>										6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
2. NAME OF OPERATOR William C. Kirkwood										7. UNIT AGREEMENT NAME Hatch Canyon	
3. ADDRESS OF OPERATOR P.O. Drawer 3439 Casper, WY 82602										8. FARM OR LEASE NAME State	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 363' FNL & 1942' FEL (NWNE) At top prod. interval reported below At total depth										9. WELL NO. 31-16	
14. PERMIT NO. <u>43-017-30075</u> DATE ISSUED <u>8-15-80</u>										10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DATE SPUDDED <u>9-5-80</u> 16. DATE T.D. REACHED <u>9-7-80</u> 17. DATE COMPL. (Ready to prod.) <u>N/A</u> 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* <u>GR 5535</u> 19. ELEV. CASINGHEAD <u>N/A</u>										11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Section 16 T32S, R15E	
20. TOTAL DEPTH, MD & TVD <u>1770'</u> 21. PLUG, BACK T.D., MD & TVD <u>N/A</u> 22. IF MULTIPLE COMPL., HOW MANY* <u>N/A</u> 23. INTERVALS DRILLED BY <u>Rotary</u> 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* <u>N/A</u>										12. COUNTY OR PARISH Garfield, co	
25. WAS DIRECTIONAL SURVEY MADE										13. STATE Utah	
26. TYPE ELECTRIC AND OTHER LOGS—RUN <u>Gamma, Caliper, Density, Resistance</u>										27. WAS WELL CORRED yes	
28. CASING RECORD (Report all strings set in well)											
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
7"		23#		20'		8 3/4		10 sacks		N/A	
29. LINER RECORD											
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		PACKER SET (MD)	
31. PERFORATION RECORD (Interval, size and number)						32. ACID, SHOT, FRACTURE, CHOKING, SQUEEZE, ETC. DEPTH INTERVAL (MD) _____ AMOUNT AND KIND OF MATERIAL USED _____					
33.* PRODUCTION											
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)						WELL STATUS (Producing or shut-in)			
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL.		GAS—MCF.		WATER—BBL.	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)										TEST WITNESSED BY	
35. LIST OF ATTACHMENTS											
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records											
SIGNED <u>Robert Montgomery</u>		TITLE <u>GEOLOGIST</u>						DATE <u>2-8-82</u>			

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of a ~~current~~ available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached here ~~to the report~~ as required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
White Rim	458'	615'	Clean white ss with no saturation.	Chinle	0'-120'	
Ceder Mesa	798'	1732'	Clean white to tan ss with no saturation.	Moenkops	120'	
				Upper White Rim	380'	
				White Rim	458'	
				Organ	615'	
				Ceder Mesa	798'	
				Elephant Canyon	1732'	